Base Industrial Remedial System Update

Restoration Advisory Board

13 March 2003

OVERVIEW

- Contract Award September 2002
- Estimated Contract Completion Date July 2003
- Remedial Technologies
  - Thermal Oxidation
  - Carbon Absorption
  - Air Sparge

OVERVIEW

- Seven Solid Waste Management Units (SWMUs) Located in the Base Industrial Area
- 192 Wells Drilled at Seven SWMUs
- Wells are either Air Sparge (AS) or Soil Vapor Extraction (SVE)

SWMU Sites on Tour

- SWMU 40 Machine Shop at Bldg 140
- SWMU 59/60 JP-8 Product Line Along Main Taxiways
- SWMU 20 Greater Base Industrial Area
- SWMU 10B JP4 Spill Site B (POL) / SWMU 61 JP-8 Product Line Near Southend of Main Runway

SWMU 40
Machine Shop at Bldg 140

- Contaminant of Concern: Chlorobenzene
- Remedial Technology: Thermal Oxidation
- Installed Five Vertical SVE Wells and Two Horizontal Wells

SWMU 40
Machine Shop at Bldg 140

- Project Milestones
  - Project Initiation: 22 October 2002
  - Process Piping Installation: 5 February 2003
  - Thermal Oxidation Equipment Arrival: April 2003
  - Anticipated Operations: June 2003

SWMU 40
Machine Shop at Bldg 140

Transformer Excavation

Process Pipe Installation

Horizontal Well Drilling

Horizontal Well Installation

Equipment Pad Layout

Vertical Well Installation

Utility Installation

Final Pad

SWMU 59

JP-8 Product Line Along Main Taxiways

- Contaminant of Concern: Benzene
- Remedial Technology: Thermal Oxidation
- Installed 25 AS/ 20 SVE Wells

SWMU 59
JP-8 Product Line Along Main Taxiways

- Project Milestones
  - Project Initiation: 22 October 2002
  - Process Piping Installation: 2 January 2003
  - Thermal Oxidation Equipment Arrival: April 2003
  - Anticipated Operations: June 2003

SWMU 59

JP-8 Product Line Along Main Taxiways

Well Vault Installation

Process Piping Within Vault

Welding of HDPE Process Pipe

View of Well Array

Jack and Bore Taxiway G Completed

Well Vault Installation

Well Array and Pipe Runs

Jack and Bore

SWMU 60

JP-8 Product Line Near Taxiways 2 and 3

- Contaminant of Concern: Benzene
- Remedial Technology: Thermal Oxidation
- Installed 25 AS/ 25 SVE Wells

SWMU 60

JP-8 Product Line Near Taxiways 2 and 3

- Project Milestones
  - Project Initiation: 22 October 2002
  - Process Piping Installation: 2 January 2003
  - Thermal Oxidation Equipment Arrival: April 2003
  - Anticipated Operations: June 2003

SWMU 60

JP-8 Product Line Near Taxiways 2 and 3

Original Pad Location

Pad Excavation

Pad Formwork

Pad Concrete

Jack and Bore Pad and Taxiway H

Pad Complete

Trench Line

Utilities

SWMU 20
Greater Base Industrial Area

- Contaminant of Concern: Trichloroethylene (TCE)
- Remedial Technology: Carbon Adsorption
- Installed 13 AS Wells/11 SVE Wells

SWMU 20
Greater Base Industrial Area

- Project Milestones
  - Project Initiation: 22 October 2002
  - Process Piping Installation: March 2003 (In Progress)
  - Thermal Oxidation Equipment Arrival: April 2003
  - Anticipated Operations: June 2003

SWMU 10B
JP4 Spill Site B (POL)

- Contaminant of Concern: Benzene
- Remedial Technology: Thermal Oxidation
- Installed 19 AS Wells/25 SVE Wells

SWMU 10B
JP4 Spill Site B (POL)

- Project Milestones
  - Project Initiation: 22 October 2002
  - Process Piping Installation: April 2003
  - Thermal Oxidation Equipment Arrival: April 2003
  - Anticipated Operations: June 2003

SWMU 10B

JP4 Spill Site B (POL)

Original Site

Subgrade Prep

Forming for Concrete Placement

Location

Formwork for View of Completed Pad

Concrete for Sump Area

Concrete

Finishing Work for Pad

SWMU 61

JP-8 Product Line Near Southend Main Runway

- Contaminant of Concern: Benzene
- Remedial Technology: Thermal Oxidation
- Installed 9 AS/ 11 SVE Wells

SWMU 61

JP-8 Product Line Near Southend Main Runway

- Project Milestones
  - Project Initiation: 22 October 2002
  - Process Piping Installation: March 2003 (In Progress)
  - Thermal Oxidation Equipment Arrival: April 2003
  - Anticipated Operations: June 2003

SWMU 61

JP-8 Product Line Near Southend Main Runway

Process Piping

Flow Control

Welding HDPE

Swale Crossing

Flow Control Pipe Vault

Vault Location

Well Vaults Vault

Piping to Well

Process Pipe

SWMU 10B

JP4 Spill Site B (Biosparge)

- Contaminant of Concern: Benzene
- Remedial Technology: Air Sparge
- Installed Four AS Wells

SWMU 10B

JP4 Spill Site B (Biosparge)

- Project Milestones
  - Project Initiation: 21 October 2002
  - Process Piping : March 2003
  - Air Sparge Equipment Arrival: April 2003
  - Anticipated Operations: June 2003

SUMMARY

- Project is on Schedule
- Project is on Budget
- All SWMU Sites Anticipated to be Operational by End of June 2003
- All Corrective Action Plan (CAP) Requirements Will Be Met